

**REMARKS/ARGUMENTS**

The Applicants originally submitted Claims 1-20 in the application. Previously, the Applicants amended Claims 1, 8 and 15. In the present preliminary amendment, the Applicants have amended independent Claims 1, 8 and 15 to clearly indicate that the transceiver antenna is disconnected from a transmit chain of the transceiver during a training mode. No other claims have been amended, canceled or added in this preliminary amendment. Accordingly, Claims 1-20 are currently pending in the application.

**I. Rejection of Claims 1, 4-6 and 8-13 under 35 U.S.C. §103**

Previously, the Examiner rejected Claims 1, 4-6 and 8-13 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 6,141,390 to Cova in view of U.S. Patent No. 6,275,685 to Wessel, *et al.* The Applicants respectfully disagree since the cited combination of Cova and Wessel does not teach or suggest employing a receive chain of a WCDMA transceiver during a training mode to provide a digital compensation signal that is a function of an output of a transmit chain of the transceiver wherein the transceiver's antenna is disconnected from the transmit chain during the training mode as recited in independent Claims 1 and 8.

Cova discloses a linear transmitter 400 that employs a predistortion system. (*See* column 3, lines 58-60, column 4, lines 35-37 and Figure 4.) The predistortion system includes a trainer subsystem (represented as block 605 in Figure 6) coupled to the transmitter 400. (*See* Figures 4 and 6.) Cova, however, specifically discloses the trainer subsystem is employed during normal transmission (showtime) by the transmitter 400 (transmission mode). (*See* column 7, lines 8-14.) Thus, while Cova may provide trainer signals, Cova does not provide the trainer signals during a

training mode wherein the antenna is disconnected from the transmit chain. Cova clearly provides trainer signals while the antenna is connected to the transmit chain.

Wessel has not been cited to teach or suggest employing a receive chain of a WCDMA transceiver during a training mode to provide a digital compensation signal that is a function of an output of a transmit chain of the transceiver wherein the transceiver's antenna is disconnected from the transmit chain during the training mode. Instead, the Examiner asserts that Wessel has been relied on to show "predistortion technique is inherently wide band(.)" (*See* Advisory Action, page 2.) Accordingly, the cited combination of Cova and Wessel does not teach or suggest employing a receive chain of a WCDMA transceiver during a training mode to provide a digital compensation signal that is a function of an output of a transmit chain of the transceiver wherein the transceiver's antenna is disconnected from the transmit chain during the training mode as recited in amended independent Claims 1 and 8.

Since Cova and Wessel, individually or in combination, fail to teach or suggest each element of independent Claims 1 and 8, the combination of Cova and Wessel does not provide a *prima facie* case of obviousness of Claims 1 and 8 and Claims dependent thereon. Accordingly, the Applicants respectfully request the Examiner to withdraw the §103(a) rejection of Claims 1, 4-6 and 8-13 and allow issuance thereof.

## **II. Rejection of Claims 2, 3, 7 and 14 under 35 U.S.C. §103**

The Examiner rejected Claims 2, 3, 7 and 14 under 35 U.S.C. §103(a) as being unpatentable over Cova and Wessel and in further view of either U.S. Patent No. 6,373,902 to Park,

*et al.* (Claim 2), U.S. Patent No. 6,240,144 to Ha (Claim 3) or U.S. Patent No. 6,288,610 to Miyashita (Claims 7 and 14). The Applicants respectfully disagree.

The Applicants do not find where Park, Ha or Miyashita teach or suggest employing a receive chain of a WCDMA transceiver during a training mode to provide a digital compensation signal that is a function of an output of a transmit chain of the transceiver wherein the transceiver's antenna is disconnected from the transmit chain during the training mode as recited in independent Claims 1 and 8. Furthermore, neither Park, Ha nor Miyashita has been cited to cure the above deficiency of Cova and Wessel but to teach the subject matter of the above designated dependent Claims 2-3, 7 and 14. Accordingly, the cited combinations of Cova, Wessel, Park, Ha and Miyashita fail to teach or suggest each element of independent Claims 1 and 8, and do not provide a *prima facie* case of obviousness of Claims 2-3, 7 and 14 which depend thereon. The Applicants, therefore, respectfully request the Examiner to withdraw the §103(a) rejection of Claims 2-3, 7 and 14 and allow issuance thereof.

### III. Rejection of Claims 15-20 under 35 U.S.C. §103

The Examiner rejected Claims 15-20 under 35 U.S.C. §103(a) as being unpatentable over Cova and Wessel in further view of Park and Ha. The Applicants respectfully disagree.

As discussed above regarding independent Claims 1 and 8, the Applicants do not find in Cova, Wessel, Park or Ha, a teaching or suggestion of employing a receive chain of a WCDMA transceiver during a training mode to provide a digital compensation signal that is a function of an output of a transmit chain of the transceiver wherein the transceiver's antenna is disconnected from the transmit chain during the training mode as also recited in independent Claim 15.

Accordingly, the cited combination of Cova, Wessel, Park and Ha fails to teach or suggest each element of independent Claim 15, and does not provide a *prima facie* case of obviousness of Claim 15 and Claims 16-20 that depend thereon. The Applicants, therefore, respectfully request the Examiner to withdraw the §103(a) rejection of Claims 15-20 and allow issuance thereof.


#### IV. Conclusion

In view of the foregoing amendment and remarks, the Applicant now sees all of the Claims currently pending in this application to be in condition for allowance and therefore earnestly solicits a Notice of Allowance for Claims 1-20.

The Applicant requests the Examiner to telephone the undersigned attorney of record at (972) 480-8800 if such would further or expedite the prosecution of the present application. The Commissioner is hereby authorized to charge any fees, credits or overpayments to Deposit Account 08-2395.

Respectfully submitted,

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